

## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Classification of the application (IPC): G05D 1/02, B25J 9/16, B25J 9/00, B25J 13/08, B25J 19/02, B25J 11/00 Technical fields searched (IPC): G05D

DOCUMENTS CONSIDERED TO BE RELEVANT					
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim			
x	WO 2017173553 A1 (A&K ROBOTICS INC [CA]) 12 October 2017 (2017-10-12) * paragraph [0055] - paragraph [0086] *	1-15			
A	US 2016005229 A1 (LEE SHIN-JUN [KR] ET AL) 07 January 2016 (2016-01-07) * paragraph [0110] - paragraph [0435] *	1-15			
A	US 2019086539 A1 (SHIN KYUNG CHUL [KR] ET AL) 21 March 2019 (2019-03-21) * paragraph [0118] - paragraph [0252] *	1-15			
A	KR 101427186 B1 (UNIV KONKUK IND COOP CORP [KR]) 07 August 2014 (2014-08-07) * paragraph [0042] - paragraph [0101] *	1-15			

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search The Hague	Date of completion of the search 03 April 2023	Examiner Coda, Ruggero						
CATEGORY OF CITED DOCUMENTS								
<ul> <li>X: particularly relevant if taken alone</li> <li>Y: particularly relevant if combined with another document of the same category</li> <li>A: technological background</li> <li>O: non-written disclosure</li> </ul>	P: intermediate docume T: theory or principle ur E: earlier patent docum D: document cited in the L: document cited for o	derlying the invention ent, but published on, or after the filing date e application						

- D: document cited in the application L: document cited for other reasons

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## ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number: EP 20 83 73 93

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 03-04-2023 The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
WO 2017173553	A1	12-10-2017	CA EP JP US US WO	3020184 A1 3439522 A1 2019520953 A 2019179307 A1 2021011474 A1 2017173553 A1	12-10-2017 13-02-2019 25-07-2019 13-06-2019 14-01-2021 12-10-2017
US 2016005229	A1	07-01-2016	NONE		
US 2019086539	A1	21-03-2019	NONE		
KR 101427186	B1	07-08-2014	NONE		

For more details about this annex: see Official Journal of the European Patent Office, No. 12/82